

WHAT IS CLAIMED IS:

1. A connector for connecting a plurality of signal lines to a specific electronic apparatus which uses the signal lines, the connector comprising:

5 a first structural unit which includes a board having a plurality of contact pads to be electrically connected to said plurality of signal lines and a substantially hollow cylindrical shaft to rotate, said shaft passing through the board, extending
10 perpendicular to the board and having a projecting part protruding from one side; and

15 a second structural unit which includes a bottom, a plurality of spring contact sections provided on the bottom and a rotatable roller provided on the bottom, each of the spring contact sections facing, at one end, the corresponding one of the contact pads and being connectable, at the other end, to the specific electronic apparatus,

20 wherein the first structural unit is to be inserted, in part, into the second structural unit, and the roller comes close to the shaft when the shaft and a part of the first structural unit are inserted into the second structural unit, and when the first structural unit is inserted, in part, into the second structural unit and the shaft is rotated through a specific angle, the projecting part comes to a position beneath to push the board against the contact sections,

thereby to bring the contact pads into contact with the contact sections, respectively.

2. The connector according to claim 1, wherein
the board has a grounding conductive pattern
5 section on its periphery,

the first structural unit has a frame section
with a conductive surface for supporting the board,
with the conductive surface of the frame section being
electrically connected to the conductive pattern
10 section,

the second structural unit has a housing with
a conductive surface, with a plurality of conductive
springs being provided in specific positions on the
bottom surface of the housing, and

15 the frame section and the housing are configured
to be electrically connectable to each other via the
conductive springs.

3. The connector according to claim 1, wherein
said plurality of contact sections are composed of
20 a contact module in which a plurality of contact
sections are previously arranged.

4. The connector according to claim 3, wherein
the contact module is composed of a plurality of
subdivided contact modules.

25 5. The connector according to claim 1, wherein
the roller is so provided that it is higher in position
than the circuit board of the specific electronic

apparatus on which the connector is to be mounted.

6. The connector according to claim 1, wherein
the first structural unit has a protective cover for
protecting the contact pads under the board.

5 7. The connector according to claim 1, wherein
said plurality of contact sections have connecting
terminals projecting downward with respect to the
bottom.

10 8. The connector according to claim 1, wherein
the bottom has an alignment pin and/or a mounting hole
for making alignment with the circuit board of the
specific electronic apparatus on which the connector is
to be mounted.

15 9. The connector according to claim 1, wherein
the rotatable roller is mounted on a cylindrical
bushing provided on the bottom.